ABSTRACT

Each of terminal equipments (11, 12) and multiplexing equipments (13) transmits a synchronization control packet to an adjacent terminal equipment or relay equipment in synchronism with an own synchronization timing signal. In the wake of the synchronization control packet, each of terminal equipments and multiplexing equipments transmits information packets having a length and predetermined for each terminal equipment, toward an opposite terminal equipment. Each of the terminal equipments (13) temporarily holds information packets received between the current synchronization timing signal and the next synchronization timing signal, and relays the held information packets in the wake of the synchronization 15 control packet in synchronism with the next synchronization timing signal.

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